

DECLARATION FOR PATENT APPLICATION

As one of the below named inventors, I hereby declare that:

My residence, post office address and citizenship is as stated below next to my name.

I believe I am one of the original and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

**ECHO CANCELLER EMPLOYING DUAL-H ARCHITECTURE
HAVING SPLIT ADAPTIVE GAIN SETTINGS**

the specification of which was filed in the United States Patent and Trademark Office as application Serial No. 08/970,229, on November 14, 1997.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed. NONE

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Kenneth J. Rudofski	Reg. No. 35,997
Georg P. McAndrews	Reg. No. 22,760
John J. Held	Reg. No. 21,061
Timothy J. Malloy	Reg. No. 25,600
William M. Wesley	Reg. No. 26,521
Lawrence M. Jarvis	Reg. No. 27,341

Gregory J. Vogler	Reg. No. 31,313
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D. David Hill	Reg. No. 35,543
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Steven J. Hampton	Reg. No. 33,707
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Alejandro Menchaca	Reg. No. 34,389
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Anthony E. Dowell	Reg. No. 39,661
Peter J. McAndrews	Reg. No. 38,547
Krista S. Schwartz	Reg. No. P-42,134
Eligio C. Pimentel	Reg. No. P-42,076
John F. Nethery	Reg. No. P-42-928
Paul L. Rodriguez	Reg. No. 40,788
Stephen H. Bean	Reg. No. P-41,607
Karen L. Hunnicutt	Reg. No. P-42-677
James P. Murphy	Reg. No. 40,741
Jeffrey D. Hsi	Reg. No. 40,024

Address all telephone calls to Lawrence M. Jarvis at telephone number:

312.707.8889.

Address all correspondence to:

Lawrence M. Jarvis
McAndrews, Held & Malloy, Ltd.
500 W. Madison, Suite 3400
Chicago, IL 60661

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Information about first inventor:

(given name, family name): **Richard C. Younce**
Residence: **64878 County Rd. 3**
Wakarush, IN 46573

Citizenship: **USA**
Post Office Address: **Same**

First inventor's signature: _____

Date Signed: _____

Richard C. Younce
5/6/98

Information about second inventor:

(given name, family name): **Kenneth P. Laberteaux**
Residence: **609 E. Oakside St.**
South Bend, IN 46614

Citizenship: **USA**
Post Office Address: **Same**

Second inventor's signature: _____

Date Signed: _____

Kenneth P. Laberteaux
May 20, 1998



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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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Washington, D.C. 20231

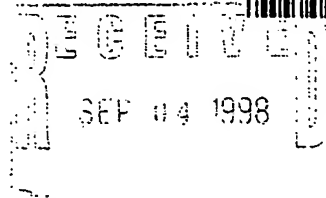
AUGUST 28, 1998

PTAS

MCANDREWS HELD & MALLOY
LAWRENCE M. JARVIS
500 WEST MADISON STREET
34TH FLOOR
CHICAGO, IL 60661



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/04/1998

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
YOUNCE, RICHARD C.

DOC DATE: 05/06/1998

ASSIGNOR:
LABERTEAUX, KENNETH P.

DOC DATE: 05/20/1998

ASSIGNEE:
TELLABS OPERATIONS, INC.
4951 INDIANA AVE.
LISLE, ILLINOIS 60532

SERIAL NUMBER: 08970229
PATENT NUMBER:

FILING DATE: 11/14/1997
ISSUE DATE:

JEEVON JONES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

1/31/92

Attorney Docket No. 12002US01

06-24-1998



100746011

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

with the attached original documents or copies

To the Honorable Commissioner of
thereof.

1. Name(s) of conveying party(ies):

Richard C. Younce
Kenneth P. LaberteauxAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution Date: May 6, 1998 and May 20, 1998

2. Name(s) and address(es) of receiving party(ies):

Tellabs Operations, Inc.
4951 Indiana Ave.
Lisle, IL 60532Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

08/970,229

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:Lawrence M. Jarvis
McAndrews, Held & Malloy
500 West Madison Street
34th Floor
Chicago, Illinois 606616. Total number of applications and patents
involved: 17. Total fee (37 CFR 3.41): \$ 40.00 *E*

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 13-0017

(Attach duplicate copy of this page if paying by deposit account)

06/23/1998 TT0111 00000176 00970229

FC:581

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Signature and Registration Number:  27.341Date: June 1, 1998Name of Person Signing: Lawrence M. Jarvis

Total number of pages including cover sheet, attachments and document: 3

ASSIGNMENT

Attorney Case No. 12002US01
Inventor: **Richard C. Younce**
Kenneth P. Laberteaux

Serial No.: 08/970,229
Filing Date: 11.14.97

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assigns to **Tellabs Operations, Inc.**, a corporation of Delaware, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled **"Echo Cancellor Employing Dual-H Architecture Having Split Adaptive Gain Settings,"** and identified as U.S.S.N. 08/970,229, filed November 14, 1997, in the United States Patent and Trademark Office, and in any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any said Letters Patent to said assignee.

The undersigned warrants himself to be the owner of the entire right, title, and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations, the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation in part, and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other document for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain said Letters Patent,

both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

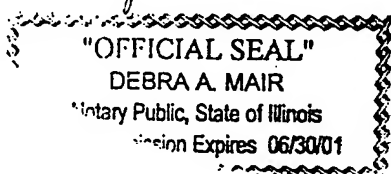
WITNESS my hand and seal this 6 day of May, 19 98.

Richard C. Younce
Richard C. Younce

State of Illinois

County of Will

The foregoing instrument was acknowledged before me this 6th day of May, 19 98 by DEBRA A. MAIR.



Debora A. Mair
Notary Public

WITNESS my hand and seal this 20 day of May, 19 98.

Kenneth P. Laberteaux
Kenneth P. Laberteaux

State of Indiana

County of ST. Joseph

The foregoing instrument was acknowledged before me this 20th day of May, 19 98 by Sherrie L. Miller.

Sherrie L. Miller
Notary Public